

WHAT IS CLAIMED IS:

1. A wireless communication apparatus comprising:  
forming means for forming a wireless communication channel to a public network base station;  
5 connection means for connecting a plurality of communication apparatuses to the communication channel; and  
setting means for setting up a communication speed of the communication channel according to the  
10 communication speed of a plurality of communication apparatuses.
  
2. The wireless communication apparatus according to claim 1, wherein said setting means determines  
15 whether a communication speed of the communication channel shall be changed according to the speed of a communication which one of a plurality of communication apparatuses starts and the communication speed of the communication channel.  
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3. The wireless communication apparatus according to claim 1, wherein said setting means maintains the communication speed of the communication channel when a total sum of the speed of the communication which one  
25 of a plurality of communication apparatuses starts and the speed of the communication previously performed is equal to or less than the communication speed of the

communication channel.

4. The wireless communication apparatus according  
to claim 1, wherein said setting means maintains the  
5 communication speed of the communication channel when  
one of a plurality of communication apparatuses  
finishes the communication and if the speed of another  
communication is equal to or more than a predetermined  
value.

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5. The wireless communication apparatus according  
to claim 1, wherein said setting means sets up the  
communication speed of the communication channel  
according to the communication speed requested by a  
15 plurality of communication apparatuses and the  
communication speed of a control data used on the  
communication channel.

6. The wireless communication apparatus according  
20 to claim 1, wherein said setting means communicates  
with a plurality of communication apparatuses according  
to a communication system different from the  
communication system used in the communication channel.

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7. The wireless communication apparatus according  
to claim 1, wherein said connection means performs a  
wireless communication with said plurality of

communication apparatuses.

8. A wireless communication method comprising steps of:

5 forming a communication channel to a public network base station;

connection a plurality of communication apparatuses to a communication channel; and

10 setting up the communication speed of the communication channel according to the communication speed of said plurality of communication apparatuses.

9. The wireless communication method according to claim 8, wherein said setting up step maintains the communication speed of the communication channel when a total sum of the speed of the communication which one of said plurality of communication apparatuses starts and the speed of the communication previously performed is equal to or less than the communication speed of the communication channel.

10. The wireless communication method according to claim 8, wherein said setting up step maintains the communication speed of the communication channel when one of said plurality of communication apparatuses finishes the communication and if the speed of another communication is equal to or more than a predetermined

value.

11. A wireless communication program or a storage medium which stores the program, the program comprising  
5 steps of:

forming a wireless communication channel to a public network base station;

connecting a plurality of communication apparatuses to a communication channel; and

10 setting up a communication speed of the communication channel according to the communication speed of a plurality of communication apparatuses.

12. The wireless communication program or the storage medium which stores the program or the program according to claim 11, wherein said setting up means maintains the communication speed of the communication channel when a total sum of the speed of the communication which one of a plurality of communication apparatuses starts and the speed of the communication previously performed is equal to or less than the communication speed of the communication channel.

13. The wireless communication program or the storage medium which stores the program or the program according to claim 11, wherein said setting up means maintains the communication speed of the communication

channel when one of a plurality of communication apparatuses finishes the communication and if the speed of another communication is equal to or more than a predetermined value.

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14. A wireless communication system comprising a wireless communication apparatus and a wireless public network, wherein said wireless public network comprising:

10 a base station; and

a location registration database;

wherein said wireless communication apparatus comprising;

15 forming means for forming a communication channel to said base station;

connection means for connecting a plurality of communication apparatuses to the communication channel; and

20 setting up means for setting up the communication speed of the communication channel according to the communication speed of a plurality of communication apparatuses;

25 wherein said location registration database stores the locations of said plurality of communication apparatuses.

15. The wireless communication system comprising

a wireless communication apparatus and a wireless public network according to claim 14, wherein said location registration database stores the location of said wireless communication apparatus.

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16. The wireless communication system comprising a wireless communication apparatus and a wireless public network according to claim 14, wherein said connection means communicates with said plurality of communication apparatuses according to a communication system different from the communication system of the communication which said forming means performs with said base station.

15 17. The wireless communication system comprising a wireless communication apparatus and a wireless public network according to claim 14, wherein said wireless public network processes incoming calls to said plurality of communication apparatuses according 20 to said location registration database.

18. The wireless communication system comprising a wireless communication apparatus and a wireless public network according to claim 14, wherein said 25 wireless public network performs the location registration to the public network corresponding to said plurality of communication apparatuses.

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19. A wireless communication system comprising a wireless communication apparatus and a wireless public network, wherein said wireless public network comprising:

5           a base station; and  
              a location registration database;  
              wherein said wireless communication apparatus comprising;  
              forming means for forming a communication channel  
10          between said base stations; and  
              connection means for connecting a plurality of communication apparatuses to the communication channel;  
              wherein said connection means communicates with said plurality of communication apparatuses according  
15          to a communication system different from the communication system of the communication which said forming means perform with said base station, and  
              said location registration database stores said wireless communication apparatus and said base station  
20          corresponding to said plurality of communication apparatuses.

20. The wireless communication system comprising a wireless communication apparatus and a wireless public network according to claim 19, wherein said wireless public network processes incoming calls to said plurality of communication apparatuses according

to said location registration data base.

21. The wireless communication system comprising  
a wireless communication apparatus and a wireless  
5 public network according to claim 19, wherein said  
wireless public network performs the location  
registration to the public network corresponding to  
said plurality of communication apparatuses.

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